

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW042120\
 Data File : VW015256.D
 Acq On : 21 Apr 2020 12:35
 Operator : SY/VA
 Sample : L2339-02
 Misc : 6.78G/5ML/MSVOA W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Apr 22 05:55:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W042020S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 21 06:39:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	27314	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	39755	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	30674	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	8129	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	11828	52.95	ug/l	0.00
Spiked Amount			Recovery	=	105.90%	
35) Dibromofluoromethane	7.88	113	11226	50.98	ug/l	0.00
Spiked Amount			Recovery	=	101.96%	
50) Toluene-d8	10.32	98	44001	47.50	ug/l	0.00
Spiked Amount			Recovery	=	95.00%	
62) 4-Bromofluorobenzene	12.62	95	11746	33.23	ug/l	0.00
Spiked Amount			Recovery	=	66.46%	

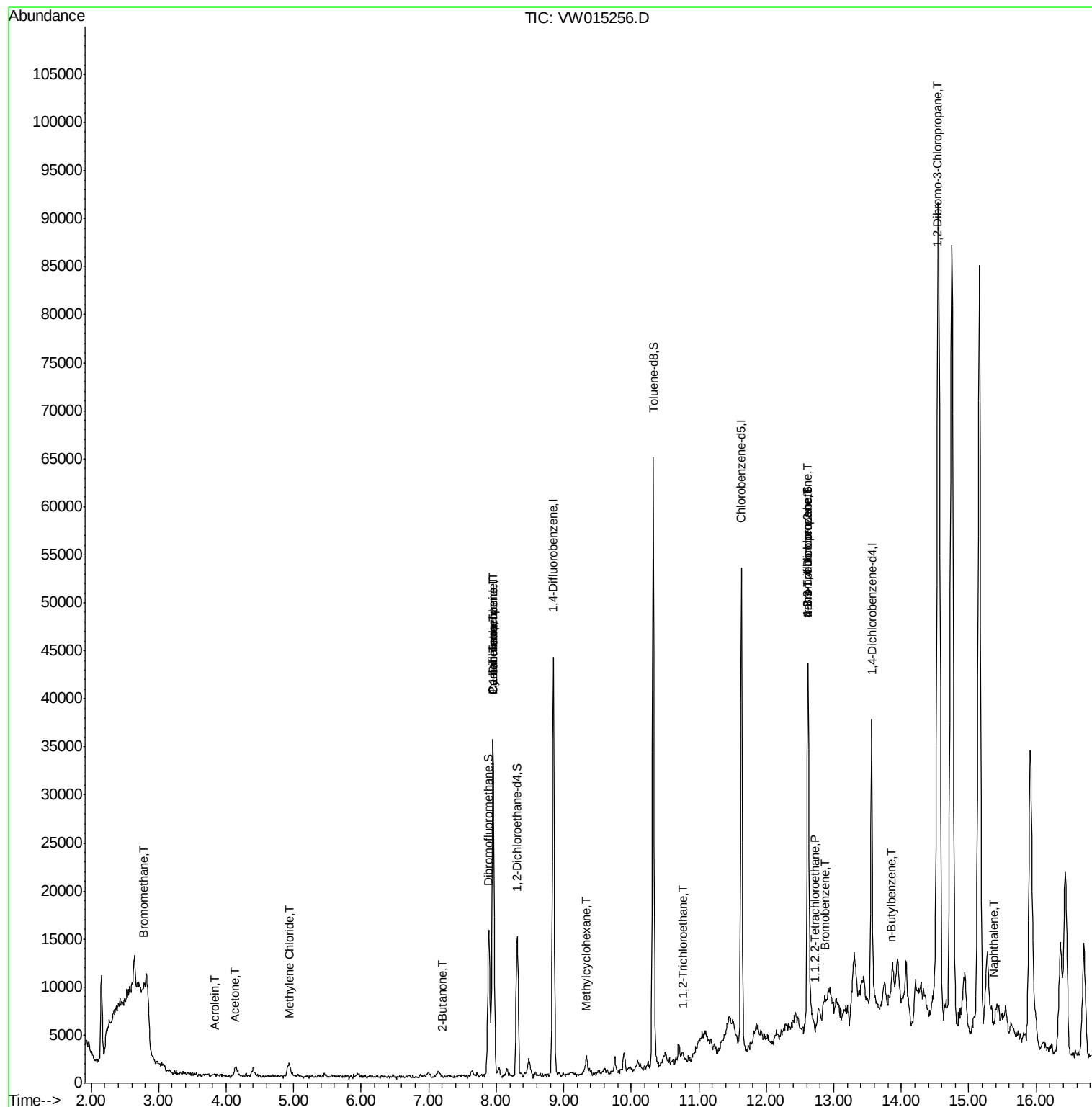
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.78	94	487	2.469	ug/l #	73
13) Acrolein	3.82	56	23	2.414	ug/l #	1
16) Acetone	4.14	43	1672	42.858	ug/l	93
20) Methylene Chloride	4.93	84	1085	4.244	ug/l	91
25) 2-Butanone	7.20	43	80	1.546	ug/l #	48
31) Cyclohexane	7.96	56	805	1.949	ug/l #	60
36) 1,1-Dichloropropene	7.95	75	1851	5.159	ug/l #	51
38) Carbon Tetrachloride	7.95	117	2520	6.427	ug/l #	20
39) Methylcyclohexane	9.34	83	792	1.658	ug/l #	81
55) 1,1,2-Trichloroethane	10.76	97	300	1.662	ug/l #	38
75) 1,1,2,2-Tetrachloroethane	12.72	83	83	1.037	ug/l #	21
76) 1,2,3-Trichloropropane	12.62	75	5747	91.387	ug/l #	100
77) Bromobenzene	12.87	156	2616	20.202	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	5747	199.772	ug/l #	22
89) n-Butylbenzene	13.84	91	2554	5.131	ug/l #	36
92) 1,2-Dibromo-3-Chloropropan	14.53	75	44	3.038	ug/l #	1
95) Naphthalene	15.37	128	567	2.268	ug/l #	40

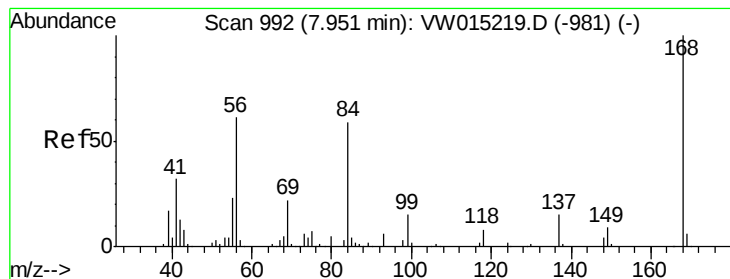
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW015256.D

Acq: 21 Apr 2020 12:35

Instrument :

MSVOA_W

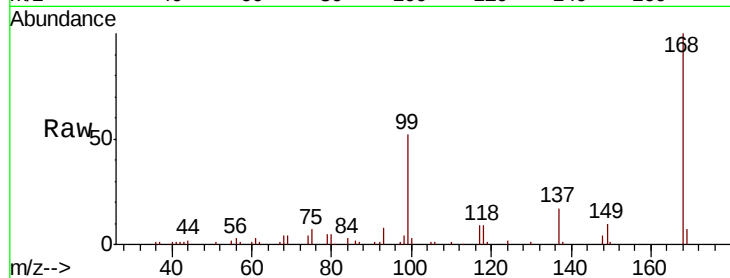
ClientSampleId :

Tot Ion:168 Resp: 27314

Ion Ratio Lower Upper

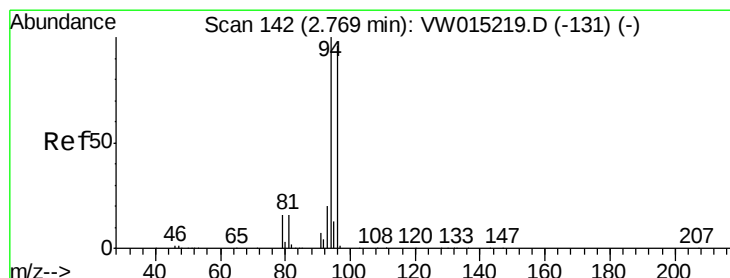
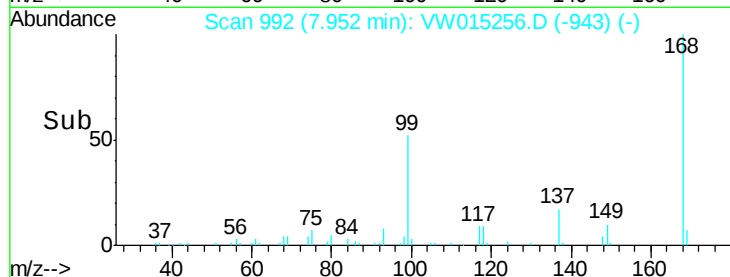
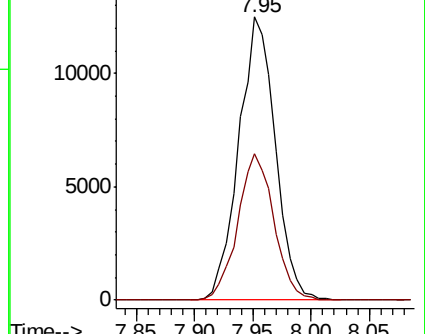
168 100

99 51.9 48.5 72.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#5

Bromomethane

Concen: 2.469 ug/l

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW015256.D

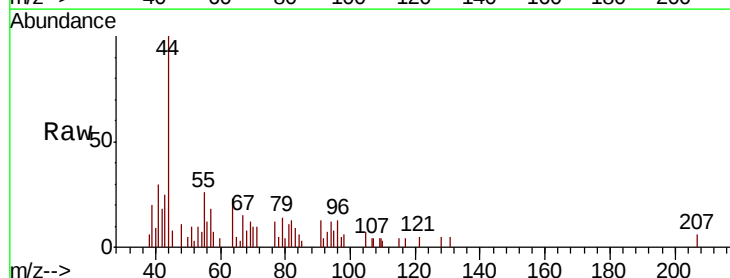
Acq: 21 Apr 2020 12:35

Tgt Ion: 94 Resp: 487

Ion Ratio Lower Upper

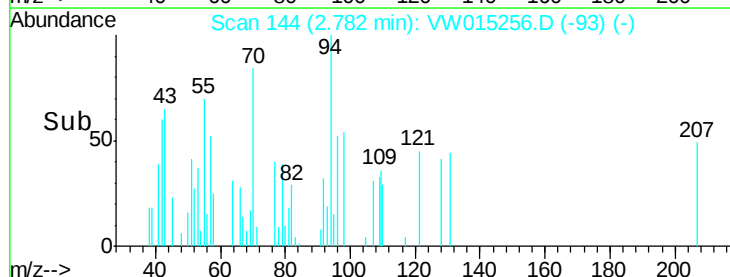
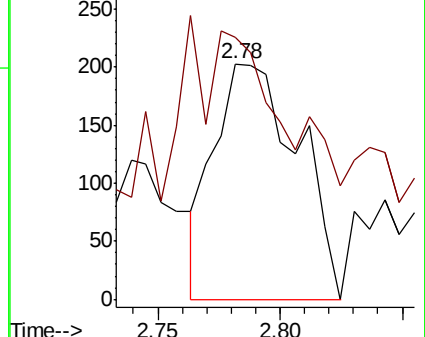
94 100

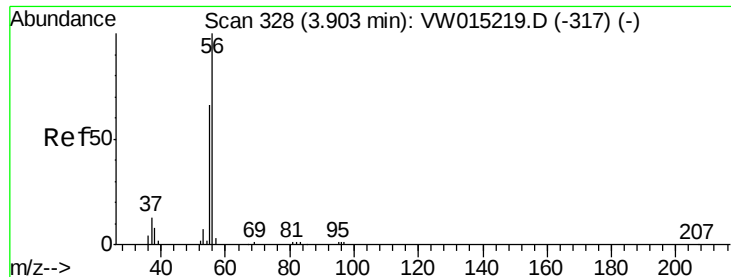
96 63.1 70.4 105.6#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW





#13

Acrolein

Concen: 2.414 ug/l

RT: 3.82 min Scan# 315

Delta R.T. -0.08 min

Lab File: VW015256.D

Acq: 21 Apr 2020 12:35

Instrument :

MSVOA_W

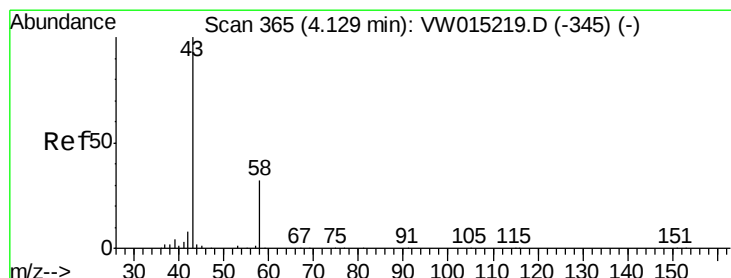
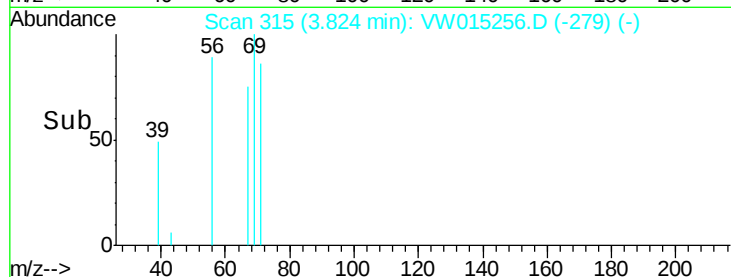
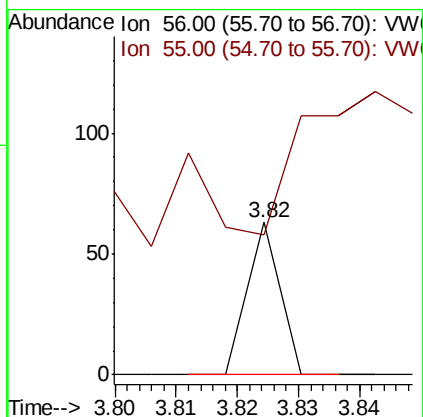
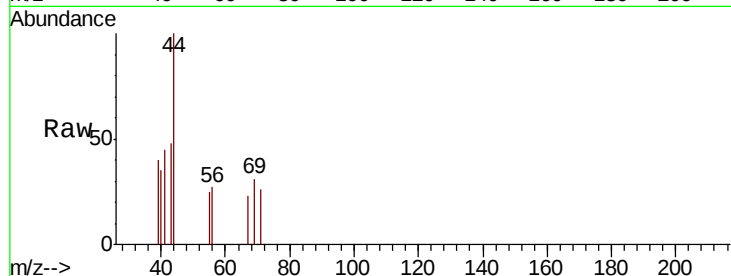
ClientSampled :

Tot Ion: 56 Resp: 23

Ion Ratio Lower Upper

56 100

55 330.4 56.2 84.2#



#16

Acetone

Concen: 42.858 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW015256.D

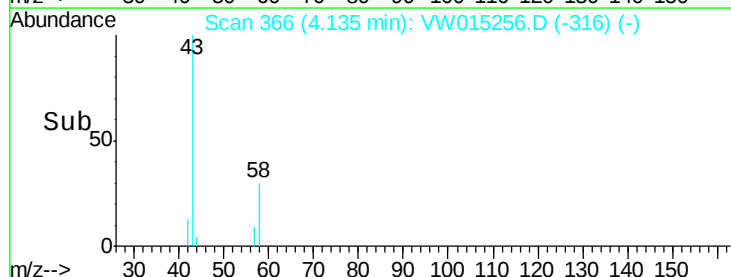
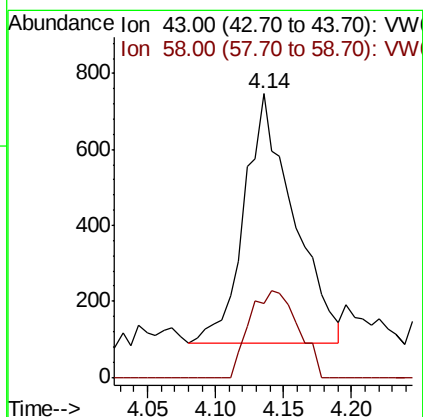
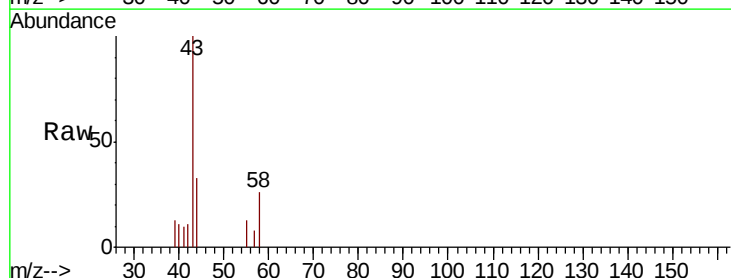
Acq: 21 Apr 2020 12:35

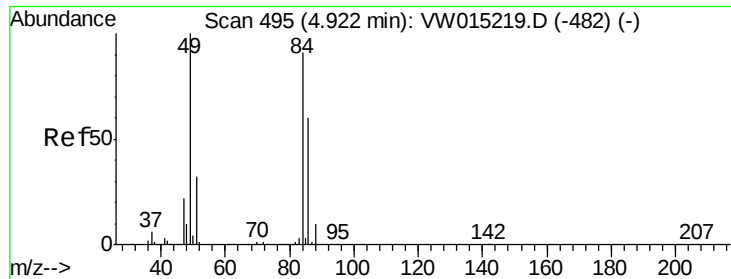
Tgt Ion: 43 Resp: 1672

Ion Ratio Lower Upper

43 100

58 29.4 27.0 40.4

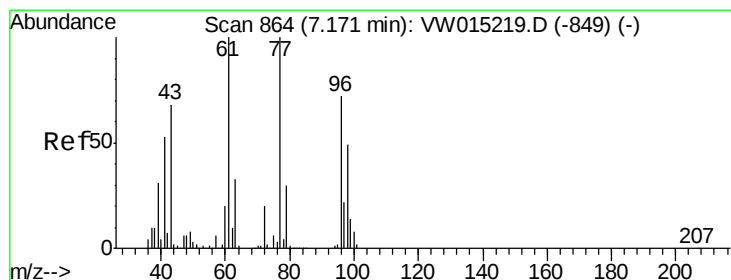
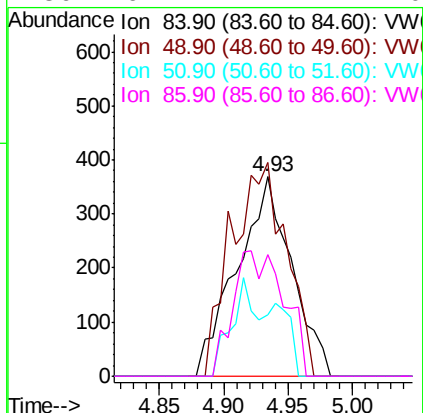
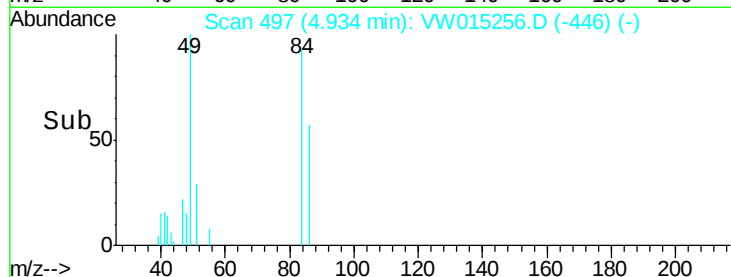
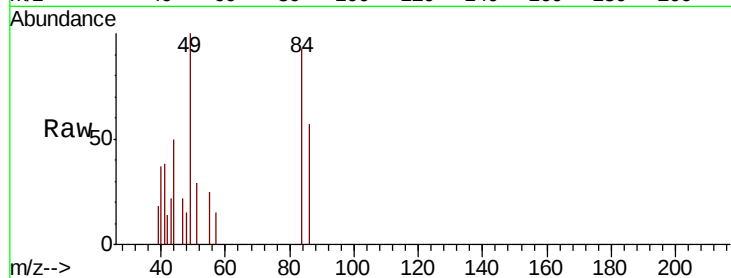




#20
Methvlene Chloride
Concen: 4.244 ug/l
RT: 4.93 min Scan# 497
Delta R.T. 0.01 min
Lab File: VW015256.D
Acq: 21 Apr 2020 12:35

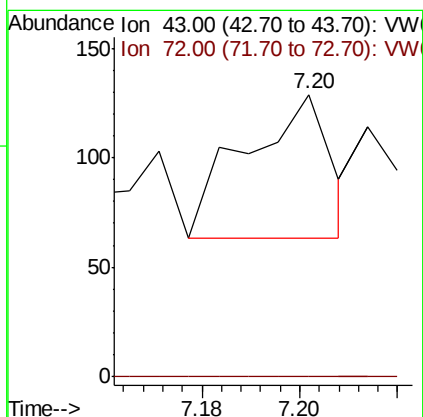
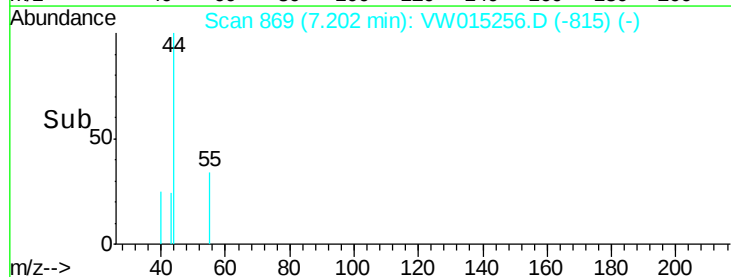
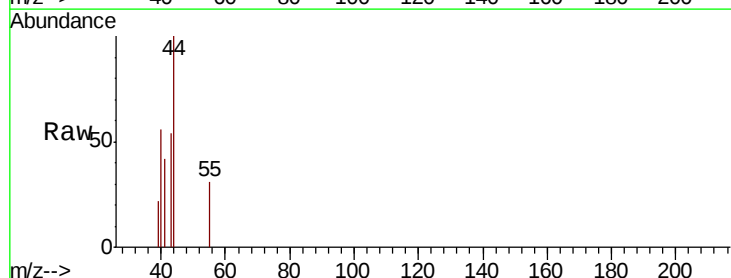
Instrument :
MSVOA_W
ClientSampleId :

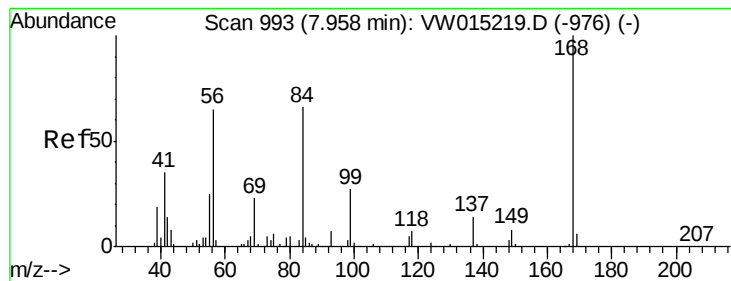
Tot Ion: 84 Resp: 1085
Ion Ratio Lower Upper
84 100
49 107.0 95.4 143.0
51 30.6 29.8 44.8
86 61.2 47.4 71.0



#25
2-Butanone
Concen: 1.546 ug/l
RT: 7.20 min Scan# 869
Delta R.T. 0.03 min
Lab File: VW015256.D
Acq: 21 Apr 2020 12:35

Tgt Ion: 43 Resp: 80
Ion Ratio Lower Upper
43 100
72 0.0 21.6 32.4#





#31

Cyclohexane

Concen: 1.949 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW015256.D

Acq: 21 Apr 2020 12:35

Instrument :

MSVOA_W

ClientSampled :

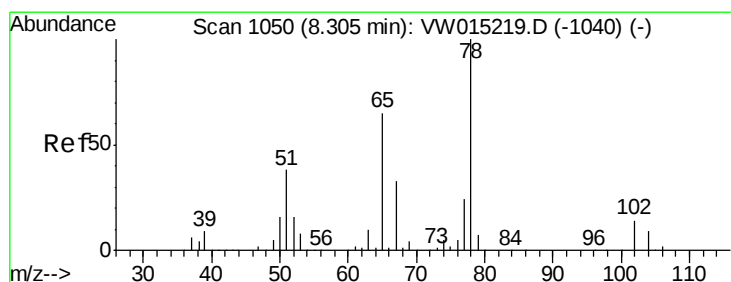
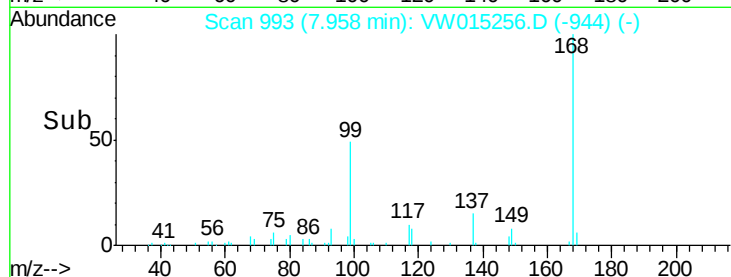
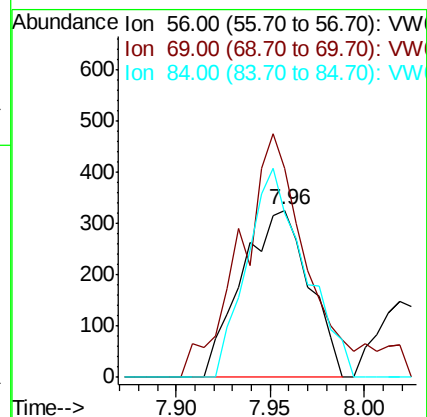
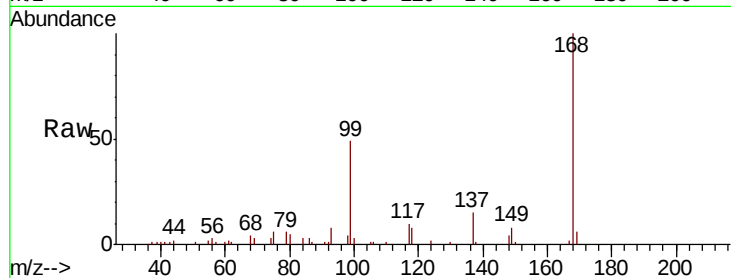
Tot Ion: 56 Resp: 805

Ion Ratio Lower Upper

56 100

69 104.3 27.1 40.7#

84 98.5 71.9 107.9



#33

1,2-Dichloroethane-d4

Concen: 52.955 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. 0.01 min

Lab File: VW015256.D

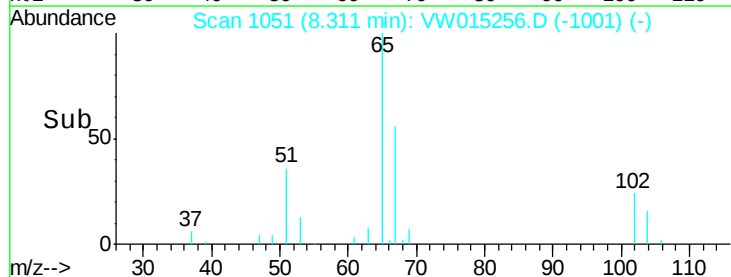
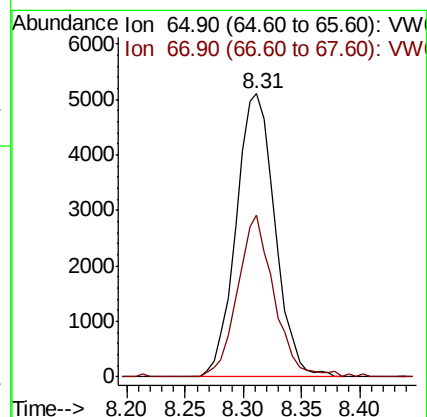
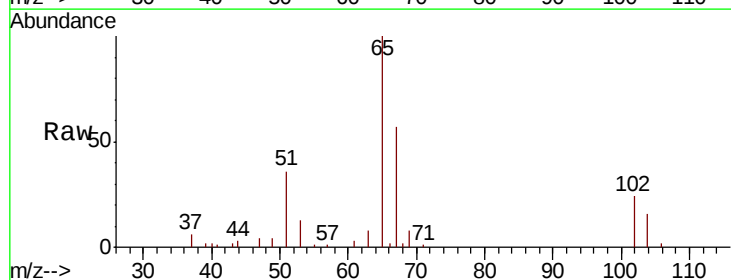
Acq: 21 Apr 2020 12:35

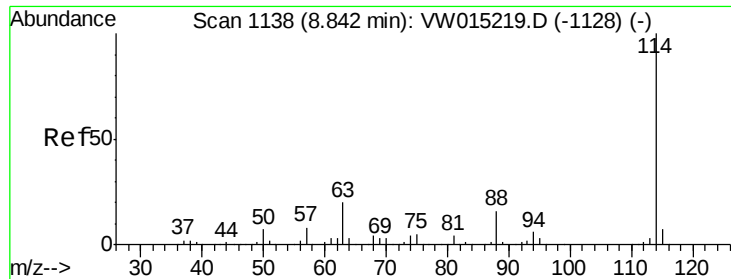
Tgt Ion: 65 Resp: 11828

Ion Ratio Lower Upper

65 100

67 54.0 0.0 107.0

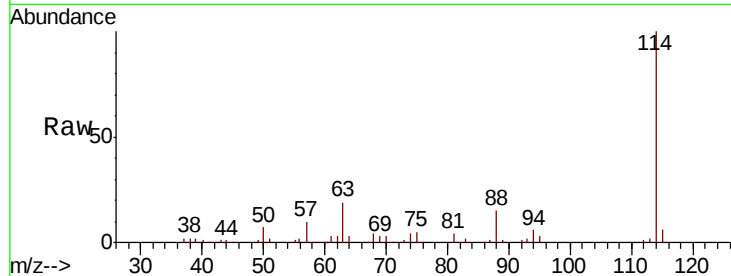




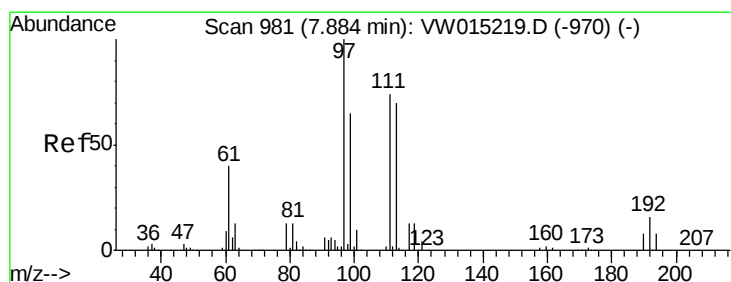
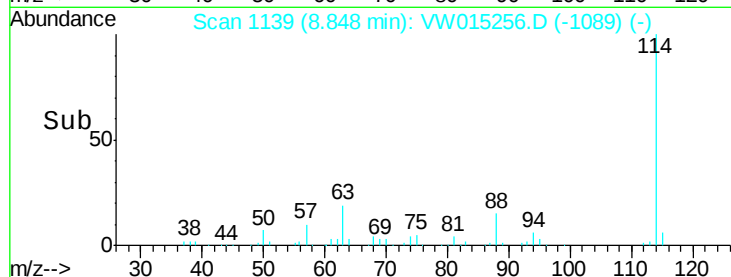
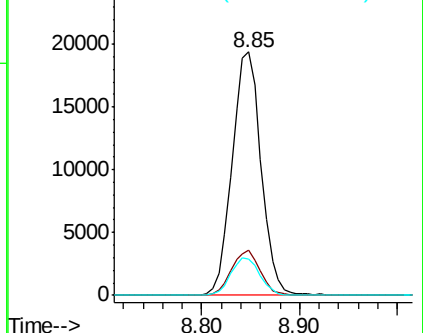
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.01 min
 Lab File: VW015256.D
 Acq: 21 Apr 2020 12:35

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:114 Resp: 39755
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 39.8
 88 14.9 0.0 30.2

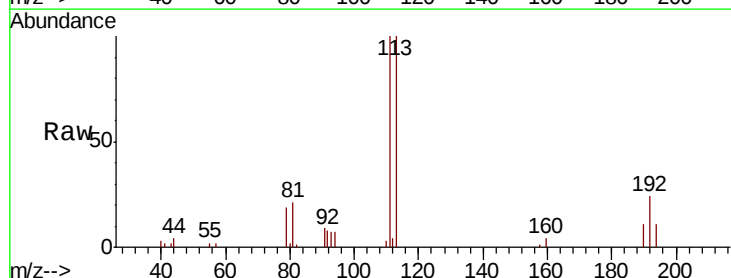


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

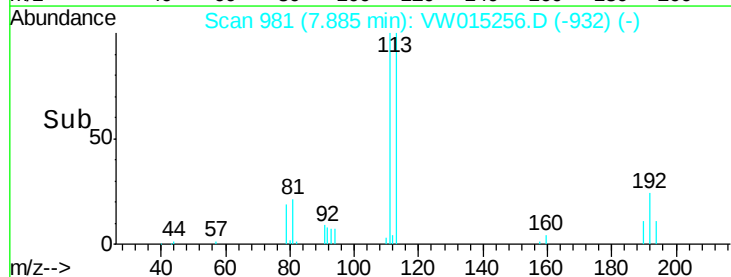
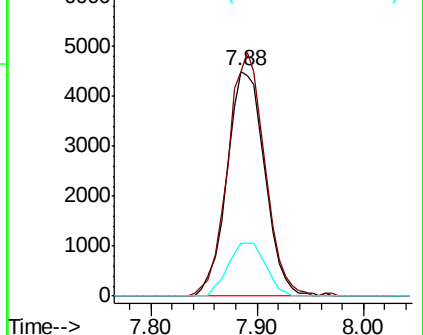


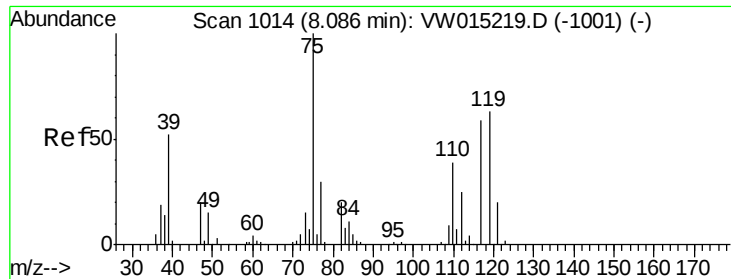
#35
 Dibromofluoromethane
 Concen: 50.979 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW015256.D
 Acq: 21 Apr 2020 12:35

Tgt Ion:113 Resp: 11226
 Ion Ratio Lower Upper
 113 100
 111 106.0 83.0 124.4
 192 23.6 15.1 22.7#



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

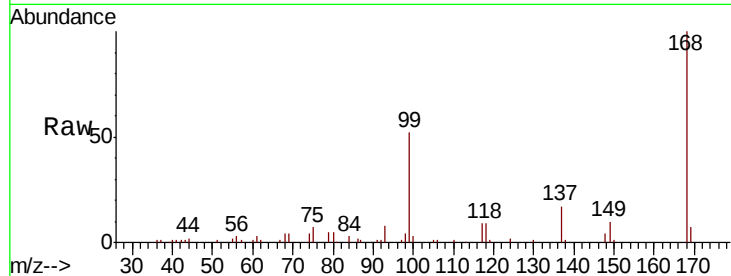




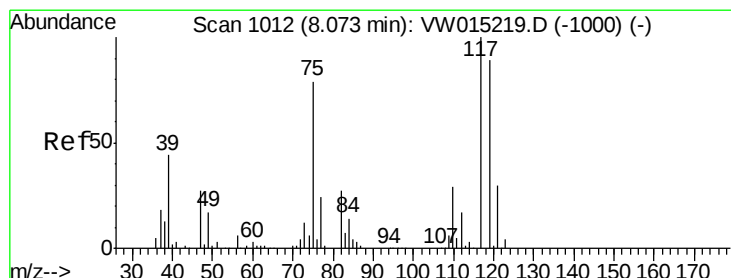
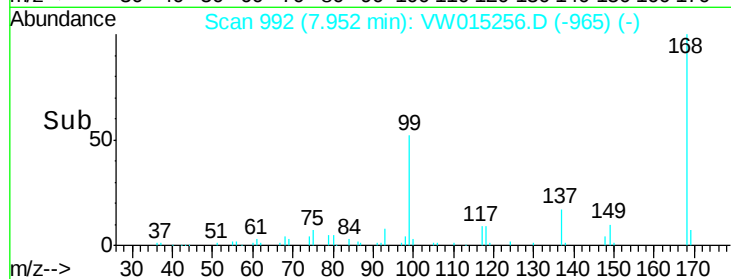
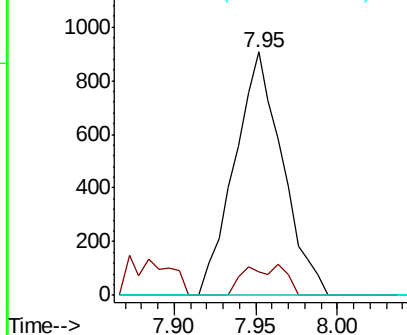
#36
 1,1-Dichloropropene
 Concen: 5.159 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW015256.D
 Acq: 21 Apr 2020 12:35

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	10.4	18.2	54.6#
77	0.0	24.5	36.7#

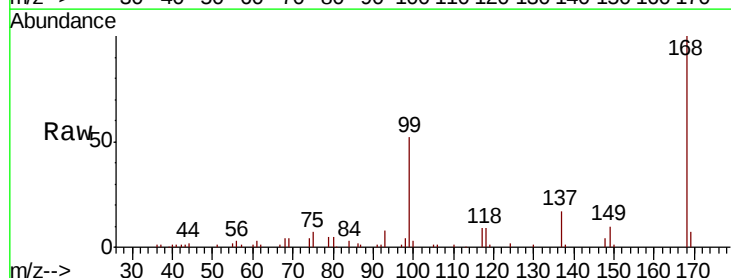


Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VW

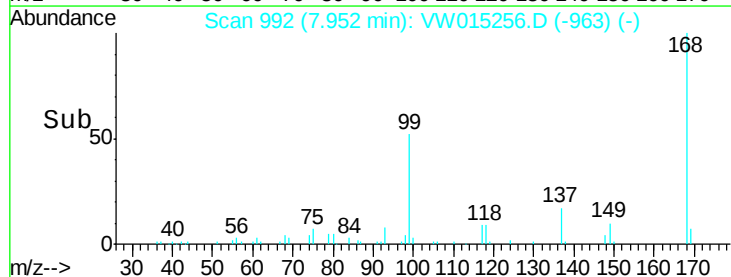
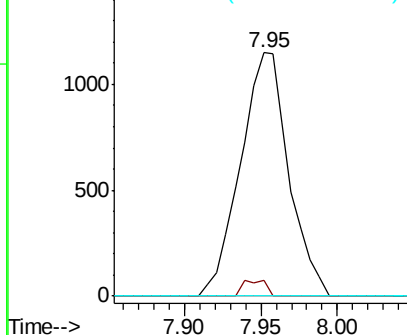


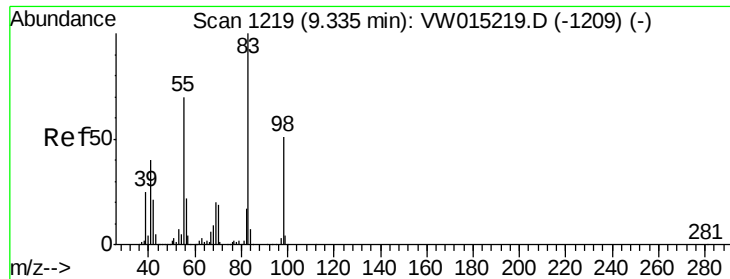
#38
 Carbon Tetrachloride
 Concen: 6.427 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW015256.D
 Acq: 21 Apr 2020 12:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.6	72.3	108.5#
121	0.0	23.7	35.5#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V

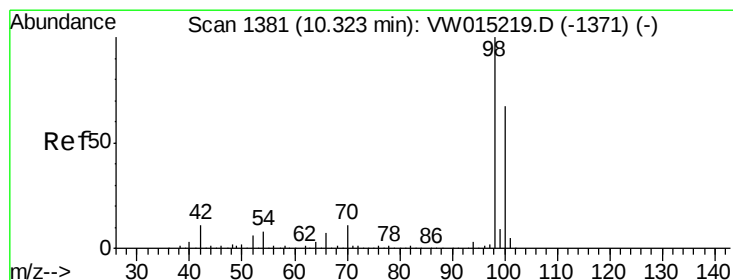
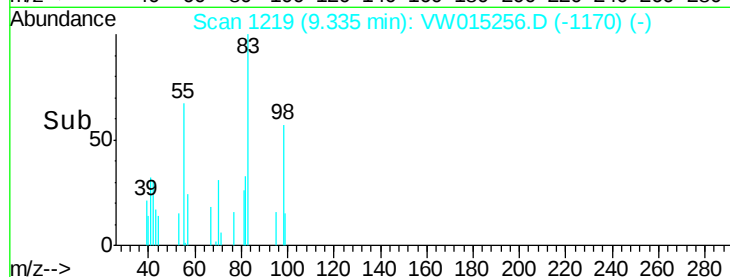
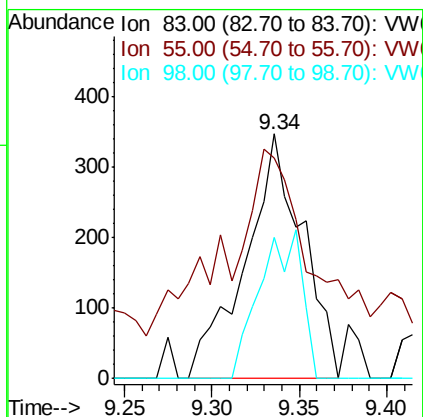
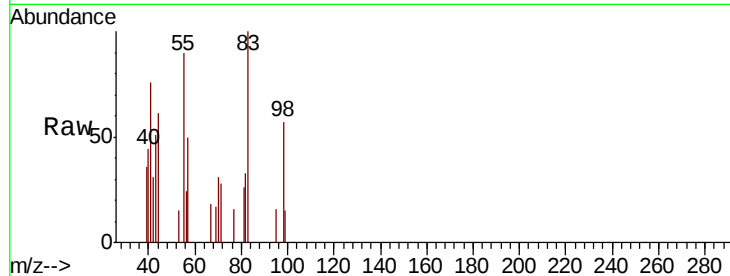




#39
Methylcyclohexane
Concen: 1.658 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW015256.D
Acq: 21 Apr 2020 12:35

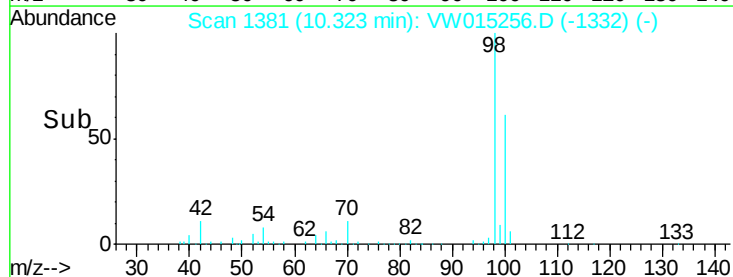
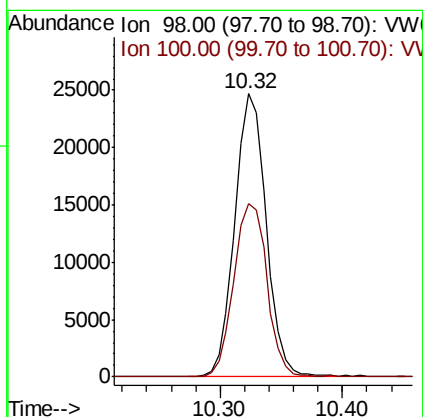
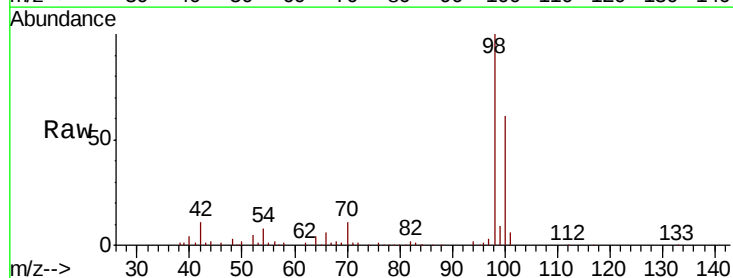
Instrument :
MSVOA_W
ClientSampled :

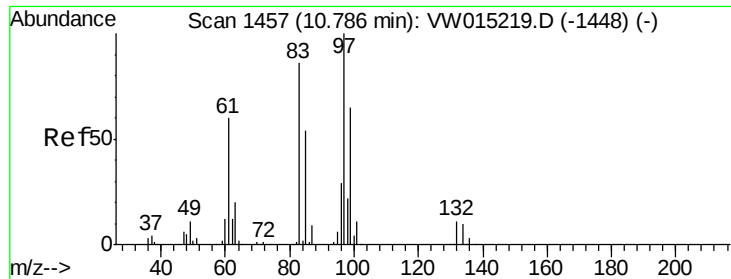
Tot Ion: 83 Resp: 792
Ion Ratio Lower Upper
83 100
55 51.3 58.1 87.1#
98 57.3 40.2 60.4



#50
Toluene-d8
Concen: 47.499 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW015256.D
Acq: 21 Apr 2020 12:35

Tgt Ion: 98 Resp: 44001
Ion Ratio Lower Upper
98 100
100 64.9 52.9 79.3

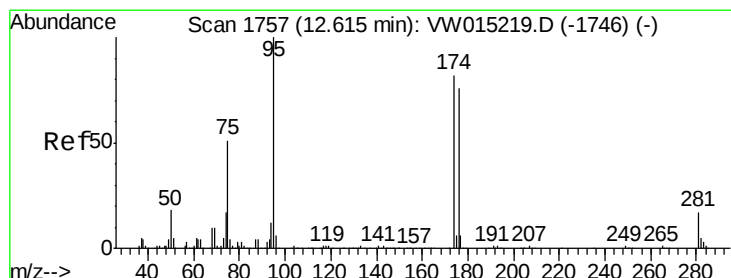
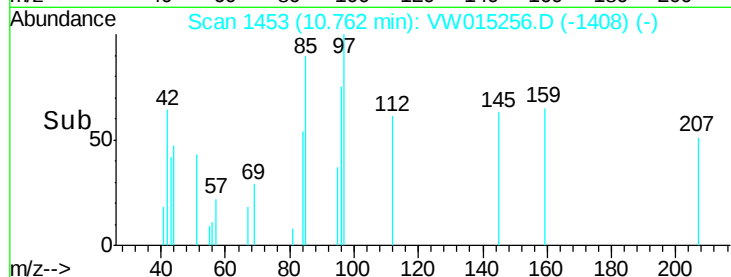
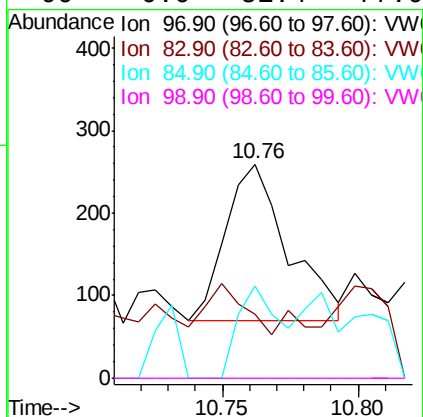
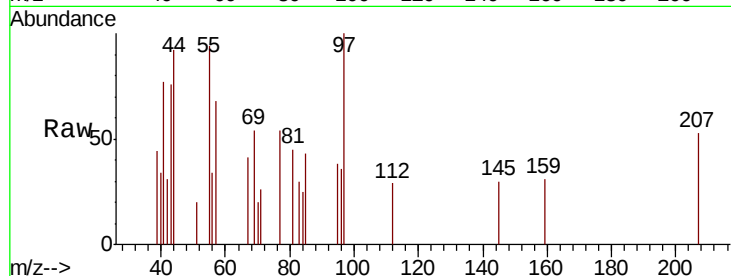




#55
 1,1,2-Trichloroethane
 Concen: 1.662 ug/l
 RT: 10.76 min Scan# 1453
 Delta R.T. -0.02 min
 Lab File: VW015256.D
 Acq: 21 Apr 2020 12:35

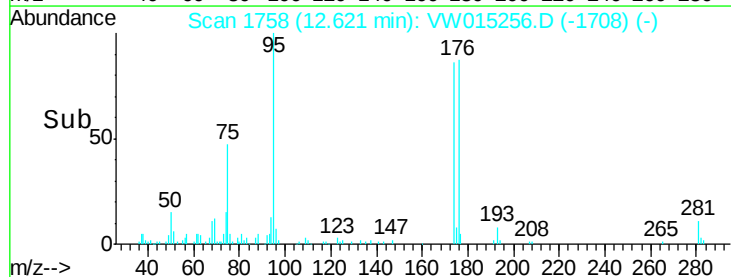
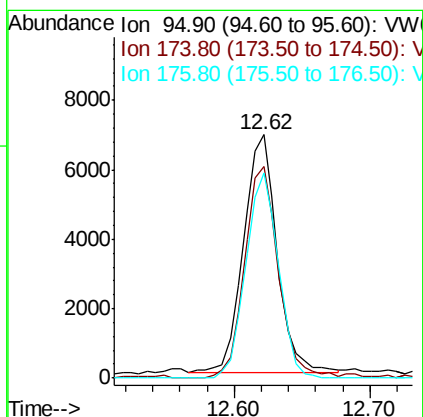
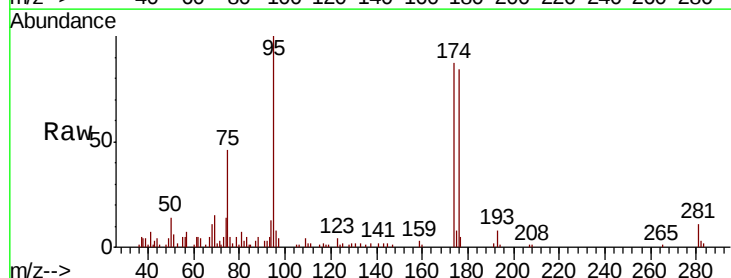
Instrument :
 MSVOA_W
 ClientSampleId :

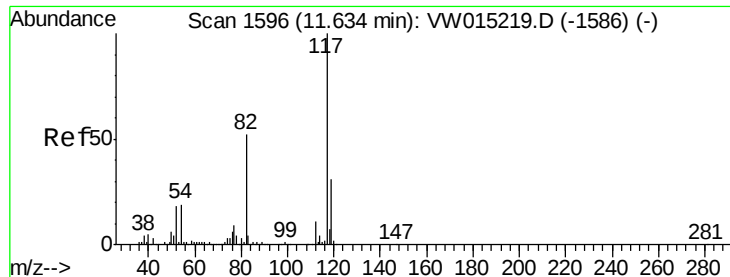
Tot Ion: 97 Resp: 300
 Ion Ratio Lower Upper
 97 100
 83 7.9 67.3 100.9#
 85 58.7 43.8 65.8
 99 0.0 51.4 77.0#



#62
 4-Bromofluorobenzene
 Concen: 33.232 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.01 min
 Lab File: VW015256.D
 Acq: 21 Apr 2020 12:35

Tgt Ion: 95 Resp: 11746
 Ion Ratio Lower Upper
 95 100
 174 90.1 0.0 144.4
 176 84.1 0.0 140.6

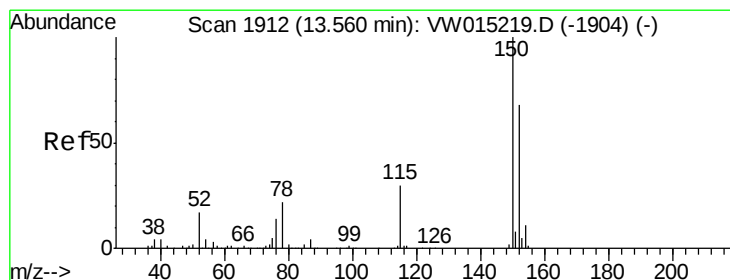
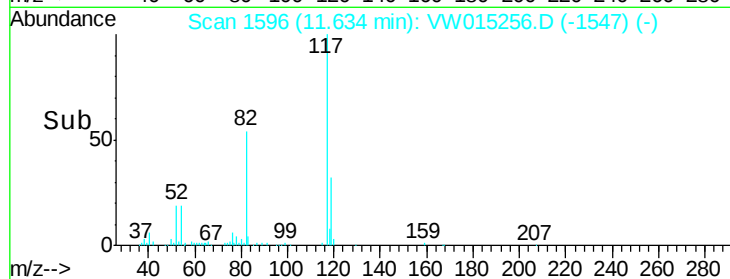
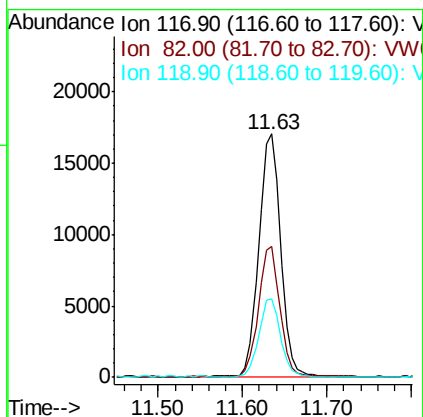
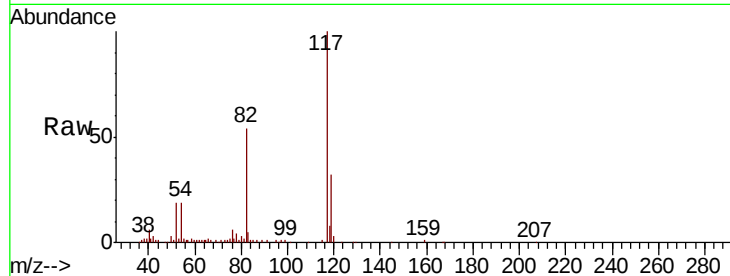




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW015256.D
Acq: 21 Apr 2020 12:35

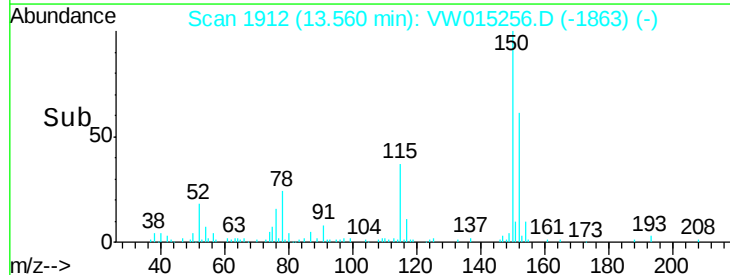
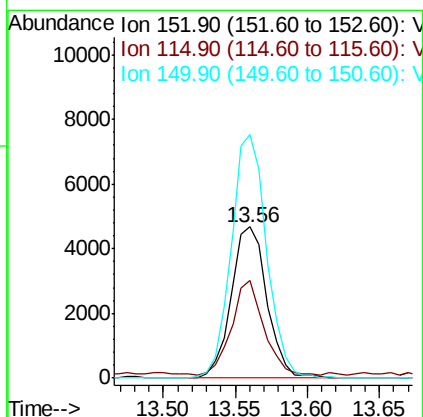
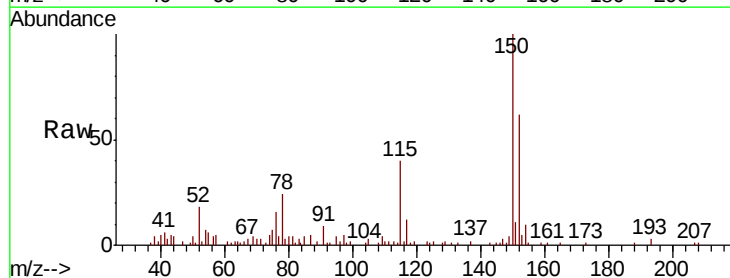
Instrument :
MSVOA_W
ClientSampleId :

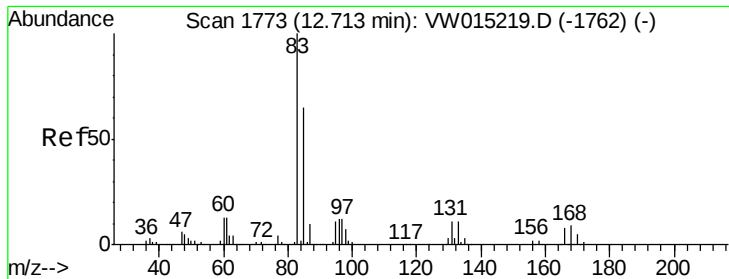
Tot Ion:117 Resp: 30674
Ion Ratio Lower Upper
117 100
82 54.1 44.1 66.1
119 32.2 24.9 37.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW015256.D
Acq: 21 Apr 2020 12:35

Tgt Ion:152 Resp: 8129
Ion Ratio Lower Upper
152 100
115 57.2 31.3 93.9
150 158.3 0.0 343.4





#75

1,1,2,2-Tetrachloroethane

Concen: 1.037 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. 0.01 min

Lab File: VW015256.D

Acq: 21 Apr 2020 12:35

Instrument :

MSVOA_W

ClientSampled :

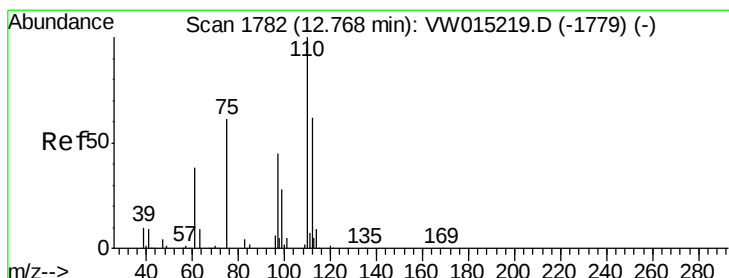
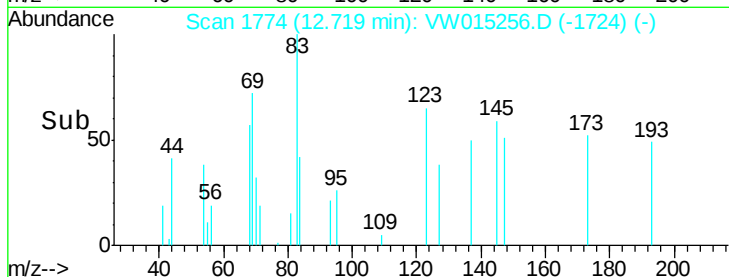
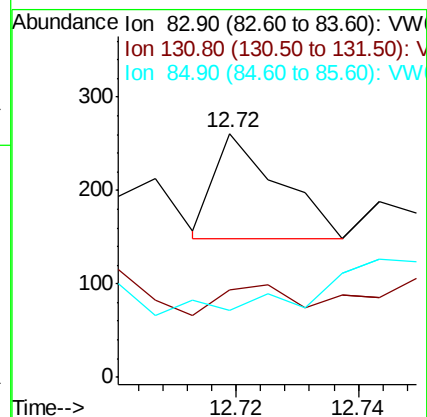
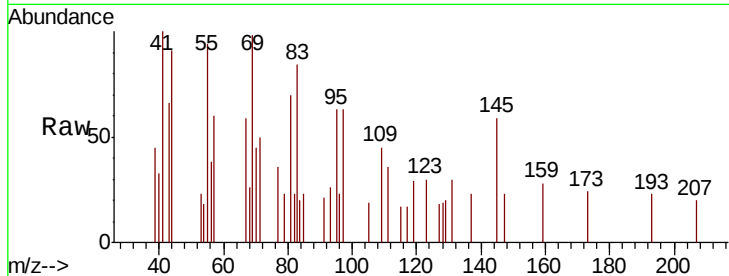
Tot Ion: 83 Resp: 83

Ion Ratio Lower Upper

83 100

131 31.3 5.1 15.2#

85 0.0 32.3 96.8#



#76

1,2,3-Trichloropropane

Concen: 91.387 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW015256.D

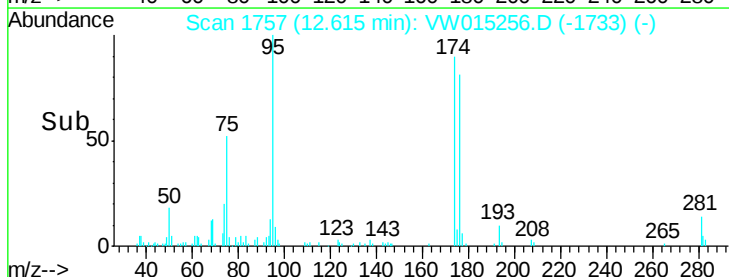
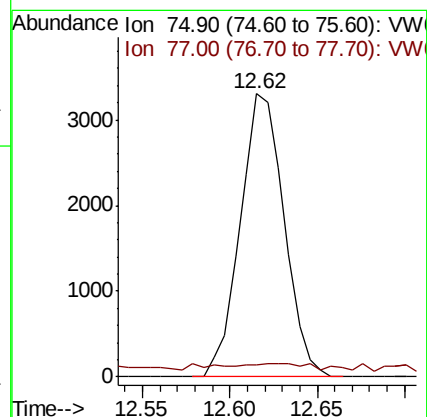
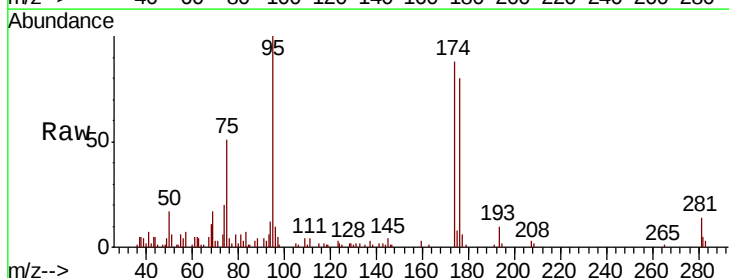
Acq: 21 Apr 2020 12:35

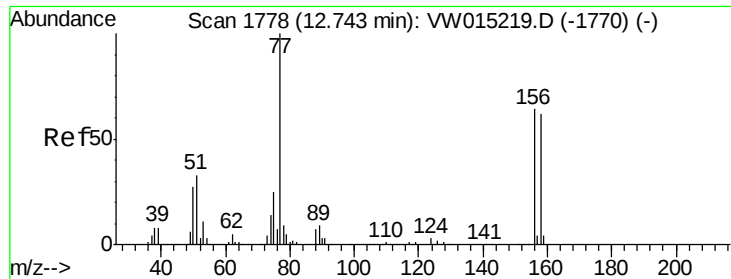
Tgt Ion: 75 Resp: 5747

Ion Ratio Lower Upper

75 100

77 3.6 0.0 0.0#





#77

Bromobenzene

Concen: 20.202 ug/l

RT: 12.87 min Scan# 1799

Delta R.T. 0.13 min

Lab File: VW015256.D

Acq: 21 Apr 2020 12:35

Instrument :

MSVOA_W

ClientSampleId :

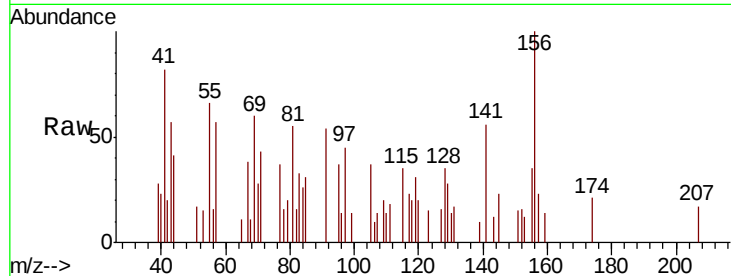
Tot Ion:156 Resp: 2616

Ion Ratio Lower Upper

156 100

77 0.0 100.5 301.5#

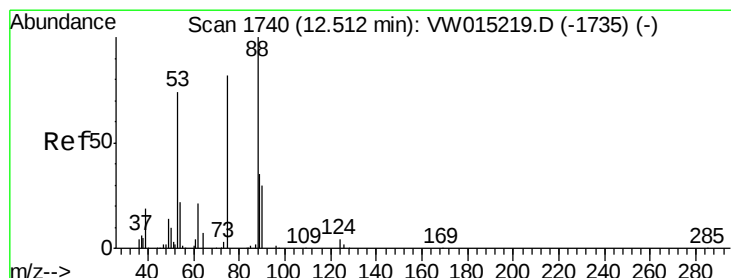
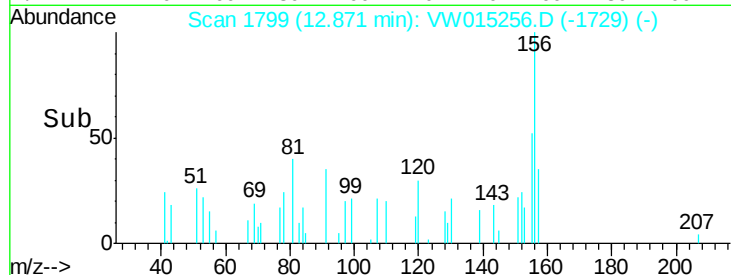
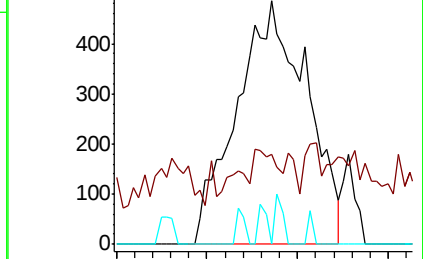
158 2.3 47.9 143.8#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 199.772 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW015256.D

Acq: 21 Apr 2020 12:35

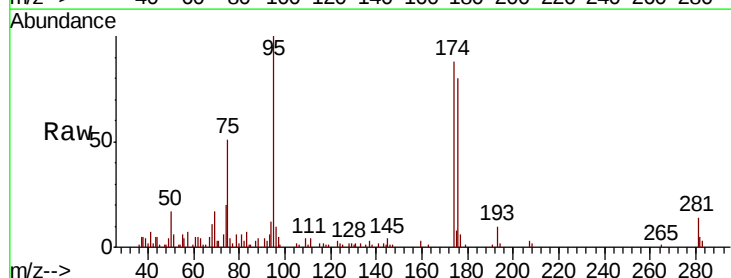
Tgt Ion: 75 Resp: 5747

Ion Ratio Lower Upper

75 100

53 9.6 69.4 104.2#

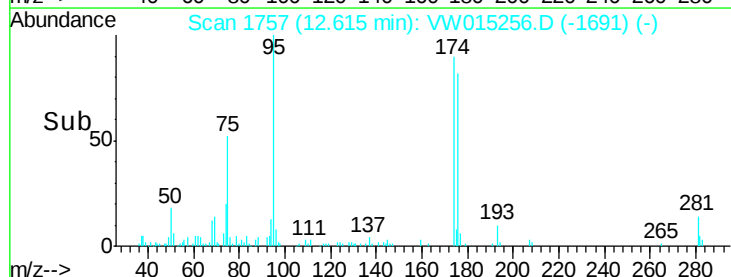
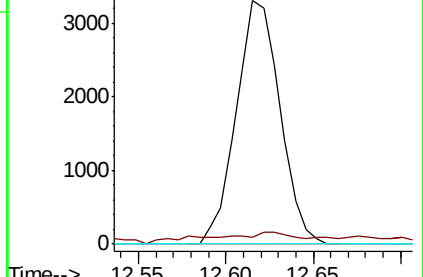
89 0.0 34.8 52.2#

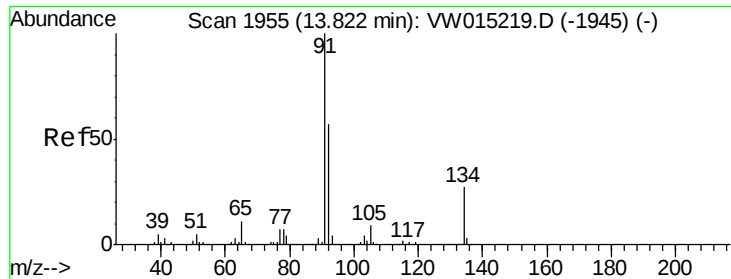


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#89

n-Butylbenzene

Concen: 5.131 ug/l

RT: 13.84 min Scan# 1958

Delta R.T. 0.02 min

Lab File: VW015256.D

Acq: 21 Apr 2020 12:35

Instrument :

MSVOA_W

ClientSampled :

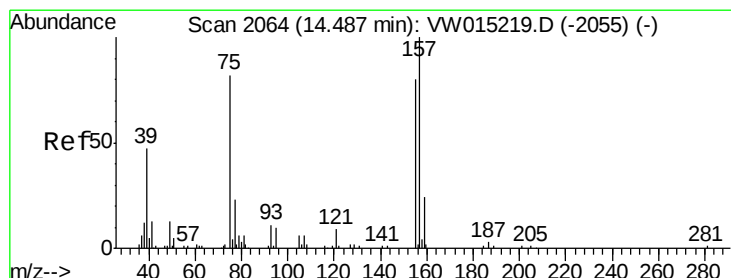
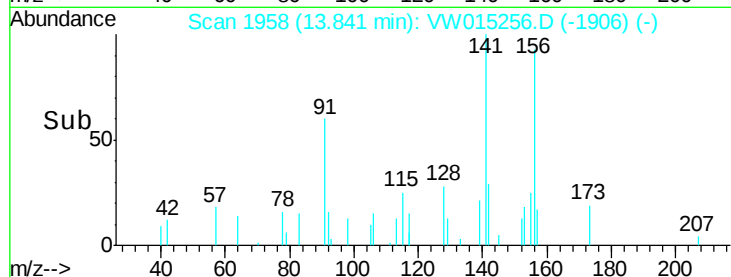
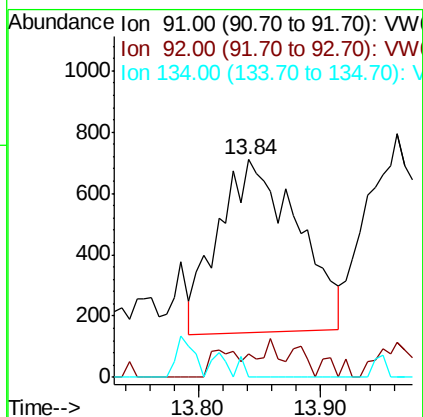
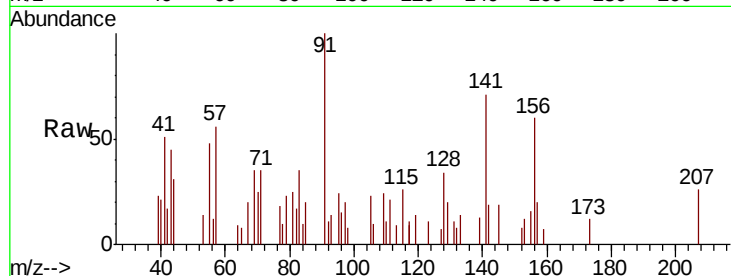
Tot Ion: 91 Resp: 2554

Ion Ratio Lower Upper

91 100

92 4.3 27.6 82.7#

134 0.0 12.8 38.3#



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.038 ug/l

RT: 14.53 min Scan# 2071

Delta R.T. 0.04 min

Lab File: VW015256.D

Acq: 21 Apr 2020 12:35

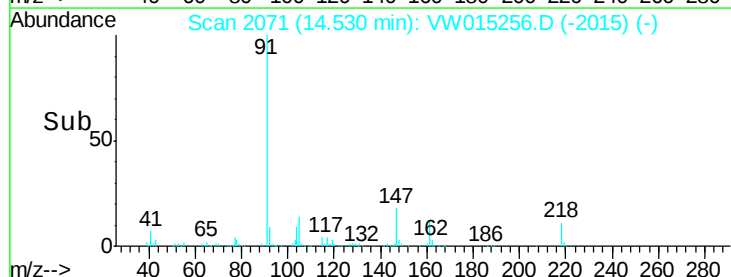
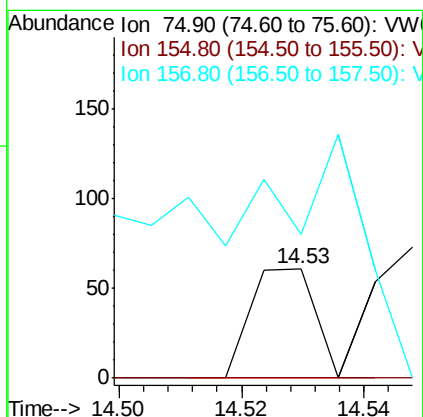
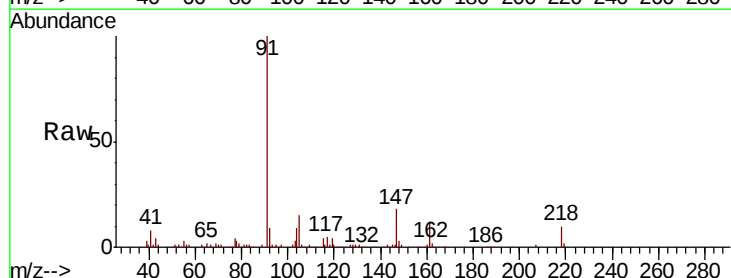
Tgt Ion: 75 Resp: 44

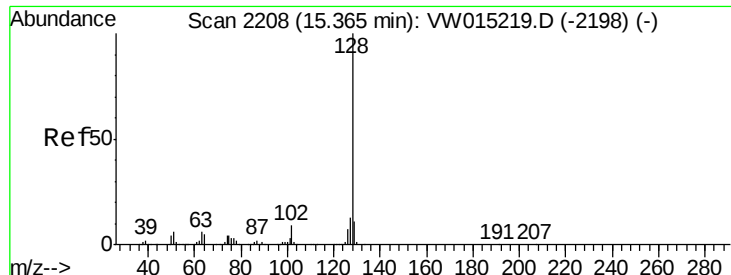
Ion Ratio Lower Upper

75 100

155 0.0 41.6 124.9#

157 322.7 53.8 161.2#





#95
 Naphthalene
 Concen: 2.268 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.01 min
 Lab File: VW015256.D
 Acq: 21 Apr 2020 12:35

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:128 Resp: 567
 Ion Ratio Lower Upper
 128 100
 127 13.1 10.3 15.5
 129 60.1 8.6 12.8#

